



Document ISO/TC38/SC 1  
N 2131

**ISO/TC38/SC1 - Textiles -Tests for coloured textiles and colorants**

**Secretariat: BSI (UK)/ANSI (USA)**

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**Date: 2004-10-08**

DRAFT REPORT OF THE 20<sup>TH</sup> MEETING OF ISO/TC 38/SC 1 TESTS FOR COLOURED TEXTILES AND COLORANTS HELD IN TERRASSA, SPAIN ON 12 JULY – 14 JULY 2004.

## TABLE OF CONTENTS

<b>TABLE OF CONTENTS</b> .....	<b>2</b>
<b>INTRODUCTION</b> .....	<b>3</b>
<b>LIST OF DELEGATES</b> .....	<b>5</b>
<b>PROGRAMME OF MEETINGS</b> .....	<b>10</b>
<b>AGENDA</b> .....	<b>12</b>
<b>DOCUMENT INDEX</b> .....	<b>14</b>
<b>BRIEF MINUTES OF THE FIRST PLENARY SESSION</b> .....	<b>16</b>
<b>BRIEF MINUTES OF THE SECOND PLENARY SESSION</b> .....	<b>19</b>
<b>RESOLUTIONS</b> .....	<b>21</b>
<b>ANNEXES</b> .....	<b>25</b>
ANNEX A: REPORT OF WORKING GROUP 1 – LIGHT & WEATHERING .....	<b>25</b>
ANNEX B: REPORT OF WORKING GROUP 2 – WASHING .....	<b>26</b>
ANNEX C: REPORT OF WORKING GROUP 3 – ATMOSPHERIC CONTAMINANTS.....	<b>28</b>
ANNEX D: REPORT OF WORKING GROUP 5 – ADJACENT FABRICS .....	<b>28</b>
ANNEX E: REPORT OF WORKING GROUP 7 – COLOUR MEASUREMENT .....	<b>29</b>
ANNEX F: REPORT OF WORKING GROUP 13 - MISCELLANEOUS TECHNICAL PROJECTS .....	<b>31</b>

## INTRODUCTION

The 20<sup>th</sup> meeting of ISO/TC 38/SC 1 was held in Terrassa (Spain) and was hosted by the Asociación Española de Normalización y Certificación (AENOR)

Previous meetings of the subcommittee were held in:

1951 Bournemouth	1977 Ottawa
1952 New York	1981 Copenhagen
1954 Scarborough	1984 Manchester
1956 New York	1987 Bad Soden am Taunus
1958 Lucerne	1989 Williamsburg
1961 Cheltenham	1991 Paris
1964 Chapel Hill	1995 Abtwil (St. Gallen)
1968 Wurzburg	1998 Charleston
1971 Newton	2001 Göthenburg
1974 Paris	

The following are participating members of the subcommittee:

Australia	India	Spain *
Belgium	Italy	Sweden *
Canada	Japan *	Switzerland *
China *	Poland	Turkey
Czech Republic	Portugal *	United Kingdom *(Co-secretariat)
Finland	Republic of Korea *	USA *(Co-secretariat)
France *	South Africa *	
Germany *		

The observer members are:

Argentina	Ireland	Serbia and Montenegro
Austria	Kenya	Slovakia
Brazil	Mexico	Sri Lanka
Bulgaria	Morocco	Tanzania
Denmark	New Zealand	Trinidad and Tobago
Ecuador	Norway	
Hungary	Romania	
Iran	Russian Federation	

Organizations in liaison:

AISE	- International Association of Soap, Detergent and Maintenance Products
CRIET	- European Textile Finishers Organization (previously AITIT)
CIE	- International Committee on Illumination
ECE	- European Colourfastness Establishment
ISTCL	- International Scientific & Technical Committee on Laundering
IULTCS	- International Union of Leather Technologists and Chemists Societies
TWC	- The Woolmark Company (previously International Wool Secretariat)

ISO/TC 6/SC2	- Tests & Quality Spec for Paper & Board
ISO/TC 22	- Road Vehicles
ISO/TC 35/SC2	- Paints & Varnishes/Pigments & Extenders
ISO/TC 91	- Surface Active Agents
ISO/TC 120	- Leather
ISO/TC 130	- Graphic Technology (DIN)
ISO/TC 189	- Ceramic Tiles
ISO/TC 72	- Textile Machinery and Machinery for Dry Cleaning and Industrial Laundry
ISO/TC 219 WG8	- Floor Coverings
IEC/SC 59D	- Home Laundry Appliances
IEC/TC 78	- Tools for Live Working
CEN TC 248	- Robert Lattie

\*The countries and organizations represented at the 20<sup>th</sup> meeting are marked with an asterisk.

## LIST OF DELEGATES

Secretary: Brian Woolley  
John Y Daniels  
Chairman: Linda Riley

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## PROGRAM OF MEETINGS

ISO/TC38/SC1 MEETINGS  
July 12 - 14 - Terrassa, Spain

Doc. N1959

DAY	AGENDA	MEMBERS ACTIVITIES	ACCOMPANYING MEMBERS ACTIVITIES
Sunday 2004.07.11	19.00. Reception (Hotel Don Candido)		
Monday 2004.07.12	08.30. City bus trip to "Institut Industrial" House 09.00-11.00. First plenary session. (2.0h) 11.00-11.30. Coffee Break 11.30-13.00. First plenary session (cont.) (1.5 h) 13.30-14.30. Lunch. (Coupole) 14.30-16.00. Working groups meetings (Small rooms) (1.5h)  16.00-16.30. Coffee Break 16.30-18.00. WG meetings (cont.) (1.5 h)  20.00-23.00 Dinner (Jazz Cava) 23.00. City bus trip to hotel	SC1 Plenary  (Cont'd)  WG1 Light/weathering WG 3 Atmos Contam  WG 2 – Washing WG 5 Adjacent Fabrics	
Tuesday 2004.07.13	08.40. City bus trip to "Institut Industrial" House 09.00-11.00. WG meetings (small rooms) (2.0 h)  11.00-11.30 Coffee Break 11.30-13.00 WG meetings (1.5 h) 13.30-16.00 Lunch (Vallparadís Gardens)  16.30-18.00 WG meetings (1.5 h) 18.30. Bus trip to Hotel Evening free	WG 13 Miscellaneous WG 7 Color Measurement  WG7  WG7	Touristic visit of Terrassa (Romanesque, modernism, musea).
Wednesday 2004.07.14	08:40. Bus trip to Institut Industrial 09.00-11.00. Second plenary session (2.0h) 11.00-11.30. Coffee Break 11.30-13.00. Plenary session (1.5 h) 13.30-14.30. Lunch (Coupole)  14.30-16.00. First Plenary Session (1.5 h) 16.00-16.30 Coffee Break 16.30-18.00 First Plenary session cont (1.5 h) 18.30 Bus trip to hotel 20.00. Bus to Museu de la Ciencia i de la Tecnica de Catalunya 20.30-23.00. Dinner. Authorities talks. 23.30. To Hotel	SC1 Second Plenary  SC1 Close  SC2 First Plenary  (Cont'd)  Combined SC1 & SC2 delegates	Bus transportation will be available to take SC1 delegates back to the hotel and to transport SC2 delegates from the hotel to the Institut
Thursday 2004.07.15	08.40 City bus trip to "Institut Industrial" House 09.00-10.30 WG meetings (small rooms) (1.5 h)  10.30-11.00 Coffee Break 11.00-13.00 WG meetings (cont) (2.5 h)	WG 4 Appearance WG 8 Water resistance  WG 11 Miscellaneous WG 3 Washing	

	13.30-14.30 Lunch 14.30-17.00 WG meetings 17.30. Bus trip to Hotel Evening free	( <u>2.5 h</u> )	To be announced	
Friday 2004.07.16	08.40. Bus trip to Institut Industrial 09.00-12.00 Second meeting SC2	(3.0 h)	SC2 Second Plenary & closing	

**AGENDA****FIRST PLENARY SESSION (09:00 on 2004-07-12)****Doc N1957Rev**

1. Opening of the meeting	Ouverture de la reunion
2. Roll call of delegates	Appel des délégués
3. Adoption of the agenda Doc. N1957Rev	Adoption de l'ordre du jour
4. Appointment of the drafting committee	Désignation du comité de rédaction
5. Report of the Secretariat Doc. N2075	Rapport du secretariat
5.1 Proposal to disband WG11 Characterization of dyes	
6. Status of all items of the programme of work and action to be taken Doc. N2077	Statut de toute question inscrite au programme de travail et suite à donner
7. Follow-up on work 7.1 Confirmation or withdrawal of items on which no progress has been made in ISO 105: B10 – 2 year rule C08 Amendment 1 - USA C08 Liquor ratio – lack of participants A07 - 2 year rule J04 – 2 year rule X19 – 2 year rule N1805 and N1823 - USA E16 –lack of participants. 7.2 Update target dates for work in progress 7.3 Work item propositions Revision of ISO 105-B02 Doc N1979 UK Proposal for NWI Assessment using Digital Image. Docs N1983 – N1997 Japan Proposal to reinstate X17 Docs N1887, 1889, 2071, 2049 and 1891.2	Suivi des travaux Confirmation ou suppression de questions pour lesquelles aucun progress n'a été accompli Mise à jour des dates cibles pour les travaux en progrès  Révision de ISO 105-B02
8. ISO 'Due Process' - Mr Andrew Williams	
9. Livelink - Mr Andrew Williams	
10. Arrangements for working groups	Arrangements pour des groupes de travail
11. Performance related standards	Normes relatives d'exécution
<b>SECOND PLENARY SESSION ( 09:00 on 2004-07-14 )</b>	
13. Adoption of minutes of the first plenary session	Approuve le compte rendu de la premiere session
14. Reports from working groups	Rapports des groupes de travail

15. Items for future work	Articles pour les travaux futurs
16. Requirements concerning a subsequent meeting	Conditions requises pour la prochaine réunion
17. Any other business	Divers
18. Approval or resolutions	Approbation des résolutions

## LIST OF DOCUMENTS – SC1 (by Document Number)

### Documents circulated before meetings

DOC No.	Title
1887	UK laboratory report of 105-X17
1889	Japanese laboratory report of 105-X17
1891.2	CD of 105-X17
1957	Rev Agenda
1959	Order of programme
1979	Rev_ISO_105-B02
1981	Effect of sleeve colour and background colour on change in colour assessments
1983	UK Proposal for NWI Determination of colour fastness grades by digital imaging techniques
1985	Determination of colour fastness grades: Part I
1987	Determination of colour fastness grades: Part II
1989	Determination of colour fastness grades: Part III
1991	Grading textile fastnesses: Part I: Using a digital camera system
1993	Grading textile fastnesses: Part II: Development of a new grading fastness formula
1995	Grading textile fastnesses: Part III: Development of a new fastness formula for assessing change in colour
1997	Grading textile fastnesses: Part IV: An interlab trial using a DigiEye system
2005	UK proposal for a corrigendum to ISO 105-A02 & A03
2009	Background reasons for UK comments on 105-B02
2023	Draft agenda for SC1/WG5 Adjacent fabrics
2025	Draft agenda for SC1/WG3 Atmospheric contaminants
2027	Draft Agenda for SC1/WG13 Misc. technical projects
2029	Evaluation of colour difference formulas
2049	Cover page for 105-X17
2051	NWIP from USA for 105-F10 Rev Specification for adjacent fabrics Multifibre
2053	CD for 105-F10 Rev
2057	105 G01 & G04 Gas test data
2059	Case studies of CF to simulate actual wear
2061	Colour fastness procedure
2063	Explanation of colour fastness procedure
2069	Testing procedure for Annex A 105-F10
2071	Report from Spain on 105-X17
2073	Draft agenda for SC1/WG1 Light & Weathering
2075	Secretariat Report
2077	Work items and experts of the working groups
2079	Draft agenda for SC1/WG2 Washing
2081	Comparison of the performance of CIED E2000 and Delta E CMC
2083	Addressed Comments
2085	Draft agenda for SC1/WG7 Colour Measurement

## Documents circulated at meetings

DOC No.	Title
2087	USA: Absolute whiteness
2089	USA: Supporting document to absolute whiteness
2091	USA: Colour communication protocol
2093	France: Technical report on ISO 105-F02
2095	France: Draft standard for ISO 105-F02
2097	Brief minutes of the first plenary
2099	China: Report on simulated wear (N2059, N2061 & N2063 combined)
2101	Japan: Test report on interlab trials on the candidate control fabric
2103	WG1 light & Weathering Report
2105	105-J0XX Method for the instrumental assessment of colour inconstancy
2107	WG2 Washing Report
2109	Resolutions (Terrassa 2004)
2111	105-J03 Amendment 2: Calculation of colour difference
2113	WG5 Adjacent Fabrics Report
2115	WG13 Miscellaneous Projects Report
2117	WG3 Atmospheric Contaminants Report
2119	WG7 Colour Measurement Report

## BRIEF MINUTES OF THE FIRST PLENARY SESSION

*(Doc. 1/N2097 has been edited for inclusion in the final report)*

### 1. OPENING OF MEETING.

Miss Riley welcomed the delegates and thanks the Spanish Standards AENOR and CECOT. She reviewed the times for breaks, lunch and evening entertainment.

### 2. ROLL CALL OF DELEGATES

Miss Riley asked that the leader of each delegation introduce their country's delegates (63 delegates from 12 countries). Professor Valldeperas offered his welcome to all the delegates and said the Spanish delegation was honoured to host these meetings.

### 3. ADOPTION OF THE AGENDA

An error in item 7.1 X19 should read X17. The delegates adopted the agenda, with the correction, unanimously.

### 4. APPOINTMENT OF DRAFTING COMMITTEE

The following drafting committee was appointed:

Mr J Daniels – for USA Co-Secretariat  
 Mr B Woolley – for UK Co-Secretariat  
 Mr F Moore – UK  
 Mr L Houillon – France

### 5. REPORT OF THE SECRETARIAT

Mr. Woolley noted that the secretariat was held jointly with the USA/UK. The UK has held the secretariat since January 2000 and the USA will take the lead from January 2006.

Mr Woolley thanked Prof. Valldeperas, Mr Gibert and Mrs Anglarill also Mr Jack Daniels and Mrs Barbara Aylesworth for all their hard work in preparing for the meeting.

Mr D Hinks is substituting for Mr R Harold as convenor of WG7.

The following are changes in membership as "O" member.

Chile has resigned its "P" membership.

The following TC' are now liaison members:

ISO/TC219/WG8

ISO/TC72 Textile machinery and machinery for dry cleaning and industrial laundry.

ISO/TC91 Surface active agents.

Liaison with TC94 Personal Safety – Protective clothing and equipment is discontinued. SC1 now has 21 "P" members 21 "O" members 12 Liaison members and 8 other organisations.

Mr Fernand Schlaepfi (USA) has retired and resigned as convenor of WG3. Mr Fujio Suga (Japan) has kindly taken over the convenorship.

SC1 has from early 2002 conducted all its business electronically and all documents have been distributed via Livelink.

The response to recent ballots has been very poor with as few as 6 “P” members voting. Delegates present were asked to remind their National Bodies of the responsibility of “P” members to respond to all ballots.

The 5 year systematic review of standards for 2003 involved 26 standards of which 20 were confirmed and the remaining 6, (105-A02, A03, D01, G03, N01 & N02) have been registered with the WG's and PWI's.

An update of the Resolutions of the 2001 meeting in Sweden follows:-

5.1 There was a unanimous vote by the delegates present to disband WG11 Characterisation of Dyes.

## **6. STATUS OF ALL ITEMS ON THE PROGRAMME OF WORK AND ACTIONS TO BE TAKEN N2077**

This was referred to the WG's for a report to the 2<sup>nd</sup> Plenary.

Mr Woolley updated WI 105-BO7 and said that comments had been addressed by USA and sent to the CS for a DIS vote.

Mr Connelly (USA) made a motion that PWI 105-A02 and PWI 105-A03 be moved from WG 13 to WG7. This was approved.

Mr Woolley stated that he hoped in the future the Programme of Work could be posted on LiveLink so that conveners could make corrections. Mr Woolley reminded the delegates that conveners are responsible for registering the experts on the working group side of LiveLink.

## **7. FOLLOW ON WORK**

There was general discussion on items 7.1 and 7.2 and they were referred to the WG's for action.

105 B10 Dr Schiller recommended this item be reinstated as a NWI under the leadership of Germany. This was carried unanimously.

105-C08 (Liquor ratio) and E16 (Water spotting of upholstered fabric) NWIP were rejected for lack of participating countries. The delegates voted unanimously to reinstate these WIs. Mr Williams (CS) was asked to comment and he suggested that the items be re-balloted.

105-X17 cancelled under 2-year rule and was referred to the WG for reinstatement.

C08 AMD1 to include SNOBS was a USA proposal and was withdrawn by the USA.

105-A07 & J04 were cancelled under the 2 year rule and the delegates agreed to their cancellation.

N1805 and N1823, regarding pale shades and absolute whiteness respectively were USA proposals and were withdrawn by the USA.

Mr A Williams commented that with cancelled WIs justification and new target dates would be needed for reinstatement.

7.2 Update of target dates of work in progress, Miss Riley recommended that the WG review target dates of WIs in progress (N2077 Program of Work).

## **7.3 W.I. PROPOSITIONS**

105-B02 and the other documents listed were referred to the respective WG's.

## 8. ISO DUE PROCESS

Mr A Williams gave presentation on "Due Process". Talked about the new deliverables including PAS & IWA.

Also the new Time Scales

1. Default – 3 years
2. Accelerated – 2 years
3. Extended – 4 years

Mr Williams reminded the group that projects face automatic cancellation if they do not progress within two years and are not published within five years. The CS will issue a warning before cancellation. He also reminded the group that for WDs receiving 100% approval, they can skip the CD stage and go directly to DIS, unless the work is under the Vienna Agreement, which required both the CD and DIS. Mr. Williams mentioned that the SVAT is under review and is only subjective at this point in time.

Mr Williams reported that there will be a new "D" category of membership that will allow large companies or associations to participate. Their representative will receive documents, but will not have voting rights. Conveners will make the decision as to which companies will be allowed as "D" members.

The "twinning process" was also reviewed and Mr Williams reported that 80% of the 147 members ISO countries are developing nations. In the twinning arrangement, if secretariats are twinned, in the event the primary partner gives up the secretariat, the secretariat does not automatically pass to the twinning partner.

Finally, Mr Williams reviewed the relatively new ISP/REMCO guidelines for reference materials including vocabulary production and certification. Regarding reference materials, he reported that there is no objection in principle to describing a method using items available from only one source. There is special ISO wording that must be used (ISO/IEC Directives, Part 2, 6.6.3) that indicates ISO does not endorse the item.

## 9. LIVELINK

Mr A Williams gave a review and demonstration of the capability of LiveLink and the New LiveLink Portal (ISO TC Portal).

## 10. ARRANGEMENT FOR WG's

Changes WG3 from Monday p.m. to 11.30 Tuesday.

Chinese documents Colour Fastness to simulate wear. Put to WG13 and agreed that interested delegates from WG's 1&2 attend WG 13. Meeting 9.00 a.m. Tuesday.

## 11. PERFORMANCE RELATED STANDARDS

This item was covered in Mr Williams talk on "Due process".

Miss Riley closed the meeting.

## **BRIEF MINUTES OF THE SECOND PLENARY SESSION**

Miss Riley (chair) welcomed all the delegates to the Second Plenary Session.

### **13. MINUTES OF THE FIRST PLENARY SESSION**

The minutes of the first Plenary Session were distributed and approved but item 7.1 X19 was corrected to read, X17.

### **14. REPORTS FROM THE WORKING GROUPS**

Reports from the working groups were circulated and approved:

WG1 N2103  
WG2 N2107  
WG3 N2117  
WG5 N2113  
WG7 N2119  
WG13 N2115

Mr Williams spoke about the Chinese technical report on simulated wear and it was agreed that a small working group, led by Mr Lattie and Ms Washington, would re-work the report before an ISO technical report document was published.

A discussion was then started on the protocol for producing future documents of this type.

### **15. ITEMS FOR FUTURE WORK**

None

### **16. REQUIREMENTS CONCERNING THE SUBSEQUENT MEETING**

Mr R Connelly kindly offered to provisionally host the SC1 and SC2 meetings in 2007 in the USA.

### **17. ANY OTHER BUSINESS**

None

### **18. APPROVAL OF RESOLUTIONS**

Document N2109: Resolutions 2004/1 to 2004/18 were approved.

### **19. CLOSURE OF MEETING**

Mr. Woolley encouraged all of the delegations to speak with their national bodies to be sure that future votes are cast. Mr. Moore (UK) said that ISO Central Secretariat should also play a role in encouraging national bodies to vote.

Miss Riley, Chair, again thanked the Spain delegation for hosting the meetings and expressed her sincere appreciation for CECOT providing the facilities and for the excellent planning by Prof. Valldeperas, Prof. Gibert, and Marissa, to the delegates for all of their hard work during the meetings, and to Mr. Woolley and Mr. Daniels as co-secretariats. She finally thanked Mr. Houillon for providing French translations.

Mr. Connelly thanked Miss Riley for chairing such productive meetings and reported that the USA looked forward to hosting the next meetings in 2007.

There being no further business the meeting was closed.

**ISO TC/38/SC1 – RESOLUTIONS****N2109****RESOLUTIONS 2004/1**

The delegations present agreed to disband WG11 Characterisation of Dyes.

Les délégations présentes ont accepté de dissoudre GT11 "Caractérisation des colorants".

**RESOLUTION 2004/2 – WG1**

The delegations present agreed to initiate a NWI 105 B08 amended to include the L series Blue Wool Ref. and make Instrumental Colour Measurement Normative – Project Leader Mr R Lattie (USA) with 3 year target date.

Les délégations présentes ont accepté d'initier un Nouveau Thème de Travail NWI 105 B08 amendé afin d'inclure la série des Références L des tissus bleus en laine et de rendre normatives leurs mesures instrumentales de la couleur. – Chef de Projet : M R Lattie (USA) avec une date cible de 3 ans.

**RESOLUTION 2004/3 – WG1**

The delegations present agreed a NWI be registered continuing the development of ISO 105-B10 Colour Fastness Weathering using Xenon Arc Lamp – Project Leader Mr Riedl (Germany) with 3 year target date.

Les délégations présentes ont accepté qu'un Nouveau Thème de Travail (NWI) soit enregistré dans la continuité du développement de ISO 105-B10 "Solidité des Coloris aux intempéries" utilisant la lampe à arc Xénon – Chef de Projet : M Riedl (Allemagne) avec une date cible de 3 ans.

**RESOLUTION 2004/4 – WG1**

The delegations present agreed to register a PWI for the revision of ISO 105-B02. Colour fastness to artificial light; Xenon Arc Fading Lamp Test. Project Leader Mrs K Skorski (UK).

Les délégations présentes ont accepté d'enregistrer un Thème de Travail Préliminaire PWI dans le cadre de la révision de ISO 105-B02 "Solidité des Coloris à la lumière artificielle, Essai de dégradation à la lampe à arc Xénon" – Chef de Projet : Mme K Skorski (Royaume-Uni).

**RESOLUTION 2004/5 – WG1**

The delegations present agreed to drop PWI N1571 Light Fastness ref. Materials from the program of work.

Les délégations présentes ont accepté de retirer PWI N1571 "Solidité des Coloris à la lumière – Matériaux de référence" du programme de travail.

**RESOLUTION 2004/6 – WG2**

The delegations present agreed to rebalot NPWI ISO 105-C08 AMD (Liquor Ratio N1973) Colour Fastness to domestic and commercial laundering using a reference detergent incorporating a low temperature bleach activator. Because of previous poor response on voting a reminder will be e-mailed to P members to vote.

Les délégations présentes ont accepté de procéder de nouveau au vote de NPWI ISO 105-C08 AMD (Rapport de bain N1973) "Solidité des Coloris au lavage domestique et commercial utilisant un activateur de blanchiment à basse température". En raison du peu de réponses précédentes lors du vote un courriel de rappel sera envoyé aux membres P (Participants) pour voter.

**RESOLUTION 2004/7 – WG13**

The delegations present agreed to request reactivation of WG8 Dry Cleaning to consider the comments from the systematic review of the ballot on ISO 105-D01 Colour Fastness to Dry Cleaning.

Les délégations présentes ont accepté de demander la réactivation du GT8 "Nettoyage au sec" afin de considérer les commentaires au vote lors de la revue systématique sur ISO 105-D01 "Solidité des Coloris au Nettoyage au sec".

**RESOLUTION 2004/8 – WG13**

The delegations present agreed to rebalot ISO 105-E16 Colour Fastness to Water Spotting in Upholstery Fabrics due to previous poor response for the participation during voting. A reminder will be e-mailed to P members to vote.

Les délégations présentes ont accepté de procéder de nouveau au vote de ISO 105-E16 "Solidité des Coloris à la goutte d'eau pour les étoffes d'ameublement", en raison du peu de réponses précédentes pour participer lors du vote. Un courriel de rappel sera envoyé aux membres P (Participants) pour voter.

**RESOLUTION 2004/9 – WG13**

The delegations present agreed to issue a Corrigendum to Colour Fastness to Bleach: Hypochlorite after review by Carol Graham (UK) and Nodie Washington (USA).

Les délégations présentes ont accepté d'éditer un Corrigendum à la norme de Solidité des Coloris au blanchiment à l'hypochlorite après la revue du texte par Carol Graham (Royaume-Uni) et Nodie Washington (USA).

**RESOLUTION 2004/10 WG13**

The delegations present agreed to reregister ISO 105-X17 Colour Fastness to Rubbing: Reciprocating Line Tester as PWI to allow time for further testing. Project Leader Mr F Suga (Japan) 3 year target.

Les délégations présentes ont accepté d'enregistrer de nouveau ISO 105-X17 "Solidité des Coloris au frottement : Appareil de va-et-vient linéaire" en tant que PWI afin de disposer de temps pour des essais complémentaires. Chef de Projet : M F Suga (Japon) avec une date cible de 3 ans.

**RESOLUTION 2004/11 WG13**

The delegations present agreed that Doc.N2099 Draft Technical Report "Case studies on the combination of colour fastness tests to simulated actual wear" be published on the SC1 website for WG13 comment. Comments will be applied to N2099 before it is published as a Technical Report.

Les délégations présentes ont accepté que le document N2099 Projet de Rapport Technique "Etudes de cas de combinaison d'essais de solidité des coloris de simulation de porter réel" soit publié sur le site Internet du SC1 pour commentaires du GT13. Les commentaires seront appliqués à N2099 avant sa publication comme Rapport Technique.

**RESOLUTION 2004/12 WG5**

The delegations present agreed revision ISO 105-F02 and F09 with revisions previously agreed containing current whiteness measurements. To rebalot as NWI – Project Leader Carol Graham (UK) 3 year target.

Les délégations présentes ont accepté la révision de ISO 105-F02 et F09 incluant les révisions précédentes acceptées et comprenant les mesures actuelles de la blancheur. A soumettre de nouveau au vote en tant que NWI - Chef de Projet Carol Graham (Royaume-Uni) avec une date cible de 3 ans.

**RESOLUTION 2004/13 WG5**

The delegations present agreed that upon the completion of the ballot on ISO 105-F10 that it will be changed from NWI to PWI. Project leader : Carol Graham (UK).

Les délégations présentes ont accepté qu'après complément du vote sur ISO 105-F10"qui passera du statut NWI à celui de PWI.

**RESOLUTION 2004/14 – WG7**

The delegations present agreed to establish a NWI for the inter-instrument calibration procedure of the ultraviolet content of light sources of spectrophotometers for measurement of white or coloured materials containing fluorescent whitening agents. Project Leader R Connelly (USA). Time scale 2 years.

Les délégations présentes ont accepté d'établir un NWI pour une procédure d'étalonnage de la teneur en Ultra-Violet des sources de lumière des spectrophotomètres entre les différents instruments pour la mesure de la blancheur ou des matériaux colorés contenant des azurants optiques. Chef de Projet : R Connelly (USA), avec une date cible de 2 ans.

**RESOLUTION 2004/ 15 – WG7**

The delegations present agreed to establish a NWI for the method of instrument assessment of the colour inconstancy of a specimen with change of illuminant (CMCC0N02). Project Leader R Wardman (UK). Time scale 2 years.

Les délégations présentes ont accepté d'établir un NWI pour la méthode d'évaluation instrumentale de la variation de nuance d'un échantillon en fonction de l'illuminant (CMC CON 02). Chef de Projet : R Wardman (Royaume-Uni), avec une date cible de 2 ans.

**RESOLUTION 2004/16 WG7**

The delegations present agreed to establish a NWI to determine the colour fastness grades by digital imaging techniques. Project Leader Sue Bolton (UK), time scale 3 years.

Les délégations présentes ont accepté d'établir un NWI afin de déterminer les cotations de solidité des coloris au moyen des techniques d'analyses d'images. Chef de Projet : Sue Bolton (Royaume-Uni), avec une date cible à 3 ans.

**RESOLUTION 2004/17 WG7**

The delegations present agreed to recommend a new WG be established under TC38. Suggested title "Digital information for textile communication".

Les délégations présentes ont accepté de recommander la création d'un nouveau GT à placer sous la responsabilité du TC38. Titre suggéré : "Information numérique pour la communication dans le secteur Textile".

**RESOLUTION 2004/18 WG13**

The delegations present agreed to request the Secretary of SC1 to develop a process for the review and acceptance of documents and the length of time on the public area of LiveLink.

Les délégations présentes ont accepté de demander au Secrétaire du SC1 de développer un processus pour la revue et l'acceptation des documents et la durée de leur validité sur la partie publique de "Livelink".

## ANNEXES

### ANNEX A: REPORT OF WORKING GROUP 1 - LIGHT AND WEATHERING

#### N2103: Report of Working Group 1 Light and Weathering

Convenor: **Dr. Wolfgang Schiller, Germany**

Countries represented: **China, France, Germany, Japan, Korea, Portugal, Spain, South Africa, Sweden, Switzerland, UK, and USA**

Documents considered:

**38/1/N 1571** Alternative Light Reference Materials

**38/1/N 1775** USA recommendation for changes to 105 B08

**38/1/N 1979** Revisions recommended to ISO 105-B02

**38/1/N 2009** Background reasons for UK comments on 105-B02.

**38/1/N 2059** Case studies of colour fastness to simulate actual wear.

**38/1/N 2061** Colour fastness procedure

**38/1/N 2063** Explanation of colour fastness procedure

Actions taken:

It was noted that N 2059, N 2061 and N 2063 were referred to Working Group 13 for discussion and disposition.

Concerning N1775, the USA announced that the task group leader, Mr Lane, had retired with no replacement for this project and asked the proposal be withdrawn. The Working Group recommended to proceed with an amendment to include the L series blue wools and that instrumental measurement be normative not just informative.

**Recommendation: N1775 PWI be dropped from the program of work and 105 B08 be amended to include the L series Blue Wool References and make instrumental color measurement normative.**

Dr Schiller said that Germany has a great interest in reinstating the 105 B10 project The Working Group recommended that a new project be initiated starting with the second WD from the prior project, Mr Riedl of Germany, will be Task Group leader, Participants include Mr Dietl, Germany, Mr Brennan, USA, Mrs Haglund, Sweden, Mr Houillon, France, Dr Herter, Switzerland, Mr Valldeperas, Spain,

**Recommendation: A New Work Item be registered continuing development of 105 B10 Textiles, Colour fastness to weathering using xenon arc lamp apparatus.**

Concerning N1979 and 2009, The working group recommended that a PWI be established for revision of 105 B02. The major differences in opinions presented at the meeting concerned the uniformity between the existing rotating rack instrument and the flat bed devices. UK agreed to take the lead conducting a ring test determining the uniformity results of rotating rack v. flat bed. Mrs Skorski, UK, will be Task Group leader also participating are Mr Suga, Japan, Mr Reidl, Germany, Mr Brennan, USA, Dr Herter, Switzerland, Mrs Haglund, Sweden, and Mr Houillon, France.

Additional questions to be considered in a revision include:

1. **Would the red azoic fabric be continued?** The consensus of the experts was that its use in the standard should be continued in any future version of B02

2. **Should the Japanese Blue References be included?** Japan had brought out documents concerning recommended changes to B01 and B02 but these documents were not distributed early enough to permit the experts to review them. One point was to include new blue references during the ring test determining uniformity. However since the uniformity test would require at least multiple specimens per run, It was decided that there was not sufficient room in the exposure devices. Mr Suga was asked to prepare a comparison between the Japanese blue references and the existing blue references and provide a report to the Working Group.
3. **Should the future B02 include the current coverage of specimens?** Mr Suga had recommended a new scheme where the first break is over exposed to read the final break. This using only two covers Mrs Riebeck commented that three covers were necessary to understand the fading behaviour of the dyestuffs. The consensus was to keep the use of the existing coverage.

**Recommendation: A PWI be registered for the revision of ISO 105 B02**

Mr Suga, Japan, had comments regarding changes to B01 to include Japanese window glass. No data was available at this meeting. Mr Suga agreed to provide such data for the Working Group experts.

Regarding N1571 PWI, Mrs. Hammonds reported that while a considerable data had been collected, the project leaders cannot continue the work. Dr Schiller said that 7 years supplies exist. The problem is the dyestuff for Blue Wool 6 and a search for an alternate is proceeding. Mrs Skorski announced that the UK has sufficient supplies for more than 10 years. It was agreed that because of the increasing use of Irradiance Monitoring and that the present supplies of blue wools are exceeding 10 years that this project (a PWI) be dropped.

**Recommendation: N 1571 PWI Task Group - for Light fastness reference materials be dropped from the program of work.**

## **ANNEX B: REPORT OF WORKING GROUP 2 – WASHING**

### **N2107: Report of Working Group 2 – Washing**

Reidun Löwendahl, Sweden, Convenor

Countries represented: China, France, Germany, Japan, Portugal, South Africa, Spain, Sweden, Switzerland, UK, USA.

Attendance sheet attached

#### **Documents Considered:**

ISO 105 C12 Industrial Laundering

ISO 105-C08/Amd Laundering using a non-phosphate detergent incorporating a bleach activator

N1929 ISO 105-C10 Colour fastness to washing with soap

N2000 Results of NWI vote on 105-C10

N2001 Result of vote on 105-C10

N2015 Comments on 105-C10 Colour fastness to washing with soap

N2017 2<sup>nd</sup> CD ISO 105-C10 Colour fastness to washing with soap

N2019 Cover page for CD 105-C10 Colour fastness to washing with soap

N2021 Voting form N2021

N2059 Case Studies of Colour fastness to Simulate Wear

N2061 Multiple Colour fastness Test Procedures

N2063 Explanation of Multiple Color fastness Procedures

N2067 Vote on Amendment for ISO 105 C-08 Laundering using a non-phosphate detergent incorporating a bleach activator

### **ISO 105 C12 Industrial Laundering**

Actions: Waiting for FDIS results. John Lloyd from Unilever will replace Geoff Bevan. Ring test and lab work completed and correlation between laboratories was found. That also correlated with work done in laundries in Sweden. This helped moved the document forward. All comments dealt with and now document should be circulated as an FDIS in July 2004.

Germany indicated a few days before the meeting that they would like to have a ring test and participate in it. It is too late now that the document is in FDIS status. Switzerland observes that there are two different detergents used for two different tests. This has been amended and the current one is the correct one.

**Recommendations:** none

### **ISO 105-C08/Amd Laundering using a non-phosphate detergent incorporating a bleach activator N2067 Vote on Amendment for ISO 105 C-08 Laundering using a non-phosphate detergent incorporating a bleach activator**

Actions: International ring test has been completed and preliminary results have been reported. Final analysis has been circulated among members. Liquor ratio of 20/1 was used and the test was acceptable. In UK group would like different liquor ratios of 50/1 and 20/1 to be incorporated in the table in the text. This is in the above amendment. The amendment was voted upon, however, the time period taken to do the work was over the two years and the item was cancelled for inactivity.

Switzerland now wants to have the 50/1 liquor ratio removed from the standard. Comment was that it should not be removed in case those using the current standard would not have a standard to use. Discussion of this took place.

**Recommendations:** CS submit **N1973 ISO 105-C08/Amd Laundering using a non-phosphate detergent incorporating a bleach activator** for a second ballot with an email to P countries to remind them to make sure that their member bodies vote on this item.

### **N1929 ISO 105-C10 Colour fastness to washing with soap**

#### **N2000 Results of NWI vote on 105-C10**

#### **N2001 Vote on New Work Item Proposal for Colour fastness to washing with soap**

#### **N2015 Comments on 105-C10 Colour fastness to washing with soap**

#### **N2019 Cover page for CD 105-C10 Colour fastness to washing with soap**

#### **N2017 2<sup>nd</sup> CD ISO 105-C10 Colour fastness to washing with soap**

#### **N2021 ISO 105-C10 2<sup>nd</sup> CD Colour fastness to washing with soap**

Actions: Circulated for vote. Numerous comments were made on the CD and the document was changed according to the comments. A 2<sup>nd</sup> CD document was sent out for voting. Results are due August 13, 2004. Some errors were discussed and they will be addressed in the voting of the 2<sup>nd</sup> CD.

**Recommendations:** None

### **N2059 Case Studies of Colorfastness to Simulate Wear, N2061 Multiple Colorfastness Test**

#### **Procedures, N2063 Explanation of Multiple Colorfastness Procedures:**

Actions: Documents moved to WG13 for discussion.

**Recommendations:** None

**ANNEX C: REPORT OF WORKING GROUP 3 – ATMOSPHERIC CONTAMINANTS****N2117: Report of Working Group 3 Atmospheric Contaminants**

Convener: Fugio Suga

Countries Represented: China, France, Japan, Germany, Spain, Sweden, Switzerland, UK, US

Documents considered:

N914 NWIP Revision of ISO 105 G01 Colour fastness tests to nitrogen

N958 Supplementary data to ISO/TC38/SC1

N1801 Test report on Interlaboratory Test program on Candidate control fabric NO<sub>2</sub> gas fading test for ISO 105-G01 & G04

N2025 Agenda – SC1/Wg3 Atmospheric Contaminants

N2057 105 G01 & G04 Gas Test Data (Ref: N1801)

N2077 Programme of Work – update for Spain meeting

N2101 Test report on Interlaboratory Test program on Candidate control fabric NO<sub>2</sub> gas fading test for ISO 105-G01 & G04

N2025 The agenda was approved as prepared.

N914; N958; N1801; N2057; N2077; N2101 Disperse Blue 3 has been identified as a restricted product. A study was initiated at the meetings in Charleston, SC to identify a suitable replacement for this dyestuff. Disperse Blue 56 appeared to be the best choice. An interlaboratory study was launched with labs in France, Switzerland, US, UK Germany. The results showed that the new dye was not as sensitive to NO<sub>2</sub>. A second laboratory study was proposed using the same materials, Tom Klaas (US) reported that there was a one year supply of the standard ribbon. This resulted in recommendation 1. There was some concern about the protocol and this resulted in recommendation 2.

Recommendation 1 The experts of WG3 will check for sources of Disperse Blue 3 and report to Fugio Suga (Japan) by the end of September.

Recommendation 2. A new interlaboratory study will be scheduled after a review of the testing protocol. Mr Suga (Japan) will be the project leader with the following countries participating; France – Laurent Houillon, Martine Dascot; Germany – Hella Reibeck; Spain – Jose Valldeperas; Switzerland – Wilfried Herter, Volker Geiger; UK – Mark Yare; US Luther Myers. The review of the protocol will be completed by the end of September. Mr. Suga will inform the participants of the timeline for the interlaboratory study by the end of January 2005.

**ANNEX D: REPORT OF WORKING GROUP 5 – ADJACENT FABRICS****N2113: Report of Working Group 5 – Adjacent Fabrics**

Convener: Robert Biguet

Countries represented: China, USA, France, UK, Sweden, Spain, Germany, ISO/CS

Documents Considered; N1839 – Report of WG5; N1847 - Report of Joint meeting WG5 and WG7; N2023 - Agenda of meeting; N2077 - Programme of Work; N2093 - Production of the cotton and viscose reference adjacent fabric; N2095 – Specification for cotton and viscose adjacent fabric; N2051 – NWIP 105-F10 (REV) Specification for adjacent fabric: Multifibre; N2053 CD 105-F10 (REV); N2055 – Vote on New Work Item Proposal ISO 105-F10; N2069 – Testing Procedure for Annex A; N2075 Secretariat report to TC38/SC1 meeting in Terrassa, Spain.

N2023 agenda was adopted as presented. N1839 and N1847 minutes from the meeting in Sweden were approved as distributed. N2077 programme of work was reviewed and it was concluded that all of the topics were included in the agenda.

N2093 and N2095 documents were prepared to replace Direct Blue 1 with Direct Blue 71. As a result of the discussion, recommendation 1 was accepted.

N1847 and N2095. The joint meeting of WG5 and WG7 discussed procedures to reduce the wide range of whiteness values measured during a previous interlaboratory trial. This discussion resulted in recommendation 2. Dr. Valldeperas (Spain) noticed that it will be necessary to check that the whiteness and tint values reported in N2095 are accurate.

N2051, 2053, 2055, 2069, 2075 related to the current NWIP ballot on ISO 105-F10 (REV). Considerable discussion resulted in recommendation 3.

Special Topics – Reference Materials; Andy Williams ISO/CS presented information on ISO/REMCO at the 1<sup>st</sup> Plenary session. WG5 considered that the various guides 30-35 apply to adjacent fabrics and should be used as an information reference.

**Recommendation:**

Recommendation 1 – WG5 proposes to replace Direct Blue 1 with Direct Blue 71 for ISO 105-F02 once additional testing has been performed to evaluate the staining performance on additional lots of adjacent fabric. Laurent Houillon (France) will be the project leader with labs in the US and UK performing the evaluations. These additional evaluations should be completed within 6 months.

Recommendation 2 – WG5 proposes that ISO 105-F02 and F09 be forwarded to ballot for revision with the modifications previously agreed and containing current whiteness measurements until WG7 completes the development of a whiteness measurement procedure. Carol Graham (UK) will review the document to ensure that the correct information is included within preparation of the fabric.

Recommendation 3: N2051 which is a New Work Item Proposal and refers to a revision of Annex A of ISO 105-F10. Based on early feedback received, WG5 understands that a wider revision of the standard is needed than envisioned by this ballot. SC1 members are therefore invited to identify aspects of ISO 105-F10 requiring attention in their responses to the ballot in N2051. Carol Graham (UK) is the proposed project leader. Carol Graham and Amy Hammonds (US) will prepare a complete revision of this standard after the closure of this ballot in September 2004.

Recommendation 4. WG5 recommends that upon its completion that the current ballot for ISO 105-F10 be changed to a Preliminary Work Item instead of a New Work Item Proposal.

## **ANNEX E: REPORT OF WORKING GROUP 7 – COLOUR MEASUREMENT**

### **N2119: Report of WG7 Colour Measurement**

Convener: David Hinks (standing in for Mr R W Harold)  
Secretary: Roger Wardman

**Countries Represented:**

France, Germany, South Africa, Spain, Sweden, UK, USA.

**Documents Considered:**

N846, N848, N916, N918, N1783, N1803, N1805, N1981, N1983, N1985, N1987, N1989, N1991, N1993, N1995, N1997, N2005, N2007, N2029, N2081, N2085, N2087, N2089, N2091, N2105, N2111.

**Actions Taken:**

1. Approved the report of the Sweden meeting of WG7, and of the agenda for WG7 (N2085rev).
2. ISO105-A05 PWI (Resolution 2001/20) Investigate the methodology for reporting depth and lightness. Agreed to remove this resolution as a PWI. (It was noted that this item can be re-instated at a later date, if necessary).
3. ISO105-A06 PWI (Resolution 2001/21). Investigate the methodology leading to the establishment of colorimetric methods. Agreed to remove this resolution as a PWI. . (It was noted that this item can be re-instated at a later date, if necessary).
4. N2087. Inter-instrument calibration procedure of the ultraviolet content of light sources of spectrophotometers for measurement of white or coloured materials containing fluorescent whitening agents. Agreed to recommend that a NWI be established with accelerated procedure (Roland Connelly as leader). It was agreed that an international round robin trial be conducted using approx. 5 coloured and 5 white samples. Countries: UK (John Lloyd), USA (Roland Connelly), Spain (Josep Gibert), France (Martine Dascot) and Germany (Alexander Dietel). Trial procedure to be developed by USA and put on Livelink as soon as possible.
5. N846 Prediction of Colour Constancy. Superseded by N2105. Method for the instrumental assessment of the colour inconstancy of a specimen with change of illuminant (CMCCON02). Agreed to recommend that a NWI be established with accelerated procedure (Roger Wardman as leader), approving N2105 as Committee Draft and move directly to prepare DIS. Countries: UK (Roger Wardman), USA (Roland Connelly), Spain (Josep Gibert), France (Martine Dascot) and Germany (Alexander Dietel). Agreed to place supporting documentation on Livelink for delegates unfamiliar with colour inconstancy indexes.
6. N848 Calculation of Corresponding Colours. Also superseded by N2105 (see point 5 above).
7. N2081 Comparison of the performance of CIEDE2000 and DECMC. N2029 Evaluation of Colour Difference Formulas. Agreed to maintain status as PWI. Both documents showed no apparent significant difference in the performance of CIEDE2000 when compared to DECMC. Noted that Mr. Kraemer stated verbally that German study also showed the same conclusion as N2081 and N2029 (Mr Toldrian to provide supporting documentation at a later date). Agreed to conduct ring trial on neutral and blue regions of colour space to establish independent evidence of substantial improvement of performance of new formula. Noted problem of standard colorimetric values being the average of the pair of the specimens (standard and batch) in regard to colour sorting applications. Roland Connelly to ask CIE colour difference committee to suggest a solution to the problem. Project leader: David Hinks (USA). Countries: Spain (Josep Gibert), Germany (Alexander Dietel), UK (Roger Wardman).
8. N1983. Determination of colour fastness grades by digital imaging techniques. (also supporting documents N1985, N1987, N1989, N1991, N1993, N1995, N1997). Agreed to recommend NWI be established, on 36 month timeline. Project leader: Sue Bolton. Countries: UK (Sue Bolton), USA (David Hinks), Spain (Josep Gilbert), France (Martine Dascot), Germany (Alexander Dietel), and Sweden (Irene Haglund). Agreed to conduct international ring trial. Units to be loaned to countries concerned (coordinated by Bob Lattie). Noted that the new method would have to be a new standard (i.e., not possible to have 'option 1' and 'option 2' within one standard) with possible modification of title of current standard(s).
9. N2005. UK proposal for a corrigendum to ISO 105-A02 and ISO 105-A03. Agreed to approve the proposal. Noted that exact wording for corrigendum to be prepared by Roger Wardman and sent to the secretariat.
10. UK proposal on viewing cabinet data. Noted proposal not yet approved by UK National Body and could not be considered.
11. N1805. A problem in the visual assessment of changes in colour of very pale shades. Agreed to cease PWI, as no progress has been made and lack of support.

12. Visual assessment of colour differences. Agreed to keep as a PWI, as progress is being made toward a new CD.
13. N2091. Submit Information Format for Textiles (SIFT). Agreed to recommend a new working group be established under TC38. Suggested title: Digital Information for Textile Communication. Noted UK proposal on colour data format still requires formal approval at National Body level, and it is the intention that this format will be incorporated into overall protocol established by the new working group.
14. N2111. Amendment Proposal to J03: Calculation of Colour Differences. This document was circulated but not discussed. Agreed to place on Livelink with accompanying background statement.

**Recommendations:**

1. N2087. Inter-instrument calibration procedure of the ultraviolet content of light sources of spectrophotometers for measurement of white or coloured materials containing fluorescent whitening agents. Agreed to recommend that a NWI be established.

Project Leader: Roland Connelly (USA).  
Timeline: 24 months (accelerated).

2. N2105. Method for the instrumental assessment of the colour inconstancy of a specimen with change of illuminant (CMCCON02). Agreed to recommend that a NWI be established.

Project Leader: Roger Wardman (UK)  
Timeline: 24 months (accelerated).

3. N1983. Determination of colour fastness grades by digital imaging techniques. (also supporting documents N1985, N1987, N1989, N1991, N1993, N1995, N1997). Agreed to recommend NWI be established.

Project leader: Sue Bolton (UK).  
Timeline: 36 months.

4. N2091. Submit Information Format for Textiles (SIFT). Agreed to recommend a new working group be established under TC38. Suggested title: Digital Information for Textile Communication.

**ANNEX F: REPORT OF WORKING GROUP 13 – MISCELLANEOUS TECHNICAL PROJECTS**

**N2115: Report of Working Group 13 – Miscellaneous Projects**

Convener: Mr Luther Myers

**Countries Represented:**

China, France, Germany, Japan, Portugal, South Africa, Spain, Switzerland, Sweden, UK, USA

**Documents Considered:**

ISO 105 D01 Colorfastness to Drycleaning  
ISO 105 E05 Colorfastness to Spotting: Acid  
ISO 105 E06 Colorfastness to Spotting: Alkali  
ISO 105 E16 Colorfastness to Water Spotting in Upholstery Fabric  
ISO 105 N01 Colorfastness to Bleach: Hypochlorite

ISO 105 X17 Colorfastness to Rubbing – Reciprocating Line Tester

ISO 105 X18 Assessment for potential for phenolic yellowing

N1885 USA lab report on 105 X17  
N1887 UK lab report on 105 X17  
N1889 Japan lab report on 105 X17  
N1891 WD 105 X17  
N1945 WD 105/E06 Revision  
N1951 WD Rev 105/E05  
N1961 WD 105 E16  
N1999 NWI Results fir 105/E05  
N2003 NWI vote on 105/E06  
N2007 WD ISO 105 X18  
N2011 NWI for 105 X18  
N2013 Vote on NWI for 105/X18  
N2031 Comments on NWI 105/E06  
N2033 2WD 105/E06  
N2035 CD 105/E06  
N2039 NWI Comments addressed in 105/E05  
N2049 Cover page for 105 X17  
N2065 Results of NWI vote 105/E16  
N2071 Spain lab report on 105 X17

List actions taken on each document (Indicate document numbers and complete titles)

Details of meeting:

Myers asked that the expert list be reviewed and any changes be sent to him. The report from the last meeting was accepted. The following documents were discussed.

ISO 105 D01 Colorfastness to Drycleaning

Comments on document were considered. UK comments on changing the name and making it specific to a solvent. New solvents are on the market and staining is not addressed. ISO 105 X-05 can be used for evaluating staining during drycleaning.

**Recommendation:** The topics of adding a safety statement and to adding staining to ISO 105 D01 Colorfastness to Drycleaning be referred to WG8 Drycleaning.

ISO 105 E05 Colorfastness to Spotting: Acid

N1951 WD Rev 105/E05  
N1999 NWI Results fir 105/E05  
N2039 NWI Comments addressed in 105/E05  
N2041 2<sup>nd</sup> WD 105/E05  
N2043 CD proposal for 105/E05

This document was out for ballot and all comments were addressed. The document is now out for DIS ballot.

ISO 105 E06 Colorfastness to Spotting: Alkali

N1945 WD 105/E06 Revision  
N2003 NWI vote on 105/E06  
N2031 Comments on NWI 105/E06  
N2033 2WD 105/E06  
N2035 CD 105/E06

This document was out for ballot and all comments were addressed. The document is now out for DIS ballot.

ISO 105 E16 Colorfastness to Water Spotting in Upholstery Fabric  
 N1961 WD 105 E16  
 N2065 Results of NWI vote 105/E16

There was a vote and the project did not get enough participants to be continued. Ms Lowendahl indicated that she would like to have another ballot to try to get five participants. Spain did not receive the document for voting and Portugal and South Africa voted but their vote was not registered on N2065. Due to this, this item should be revoked.

**Recommendations:** CS submit **ISO 105 E16 Colorfastness to Water Spotting in Upholstery Fabric** for a second ballot for a new work item with an email to P countries to remind them to make sure that their member bodies vote on this item.

ISO 105 N01 Colorfastness to Bleach: Hypochlorite

Formula in document is hard to use. Question on how to use the formula. No information was available at the meeting about how to correct the interpretation of the formula. The working group will submit a technical corrigendum to the SC1 Secretariat for publication with the document.

**Recommendation:** UK (Graham) and USA (Washington) will draft a correction for a technical corrigendum for making the formula more clear in the document. This will be circulated to the members of WG13 for review before it is submitted to the SC1 Secretariat for submission as a technical corrigendum for ISO 105 N01 Colour fastness to Bleach: Hypochlorite. Comments will be circulated by the end of September, 2004.

ISO 105 X17 Colorfastness to Rubbing – Reciprocating Line Tester  
 N1885 USA lab report on 105 X17  
 N1887 UK lab report on 105 X17  
 N1889 Japan lab report on 105 X17  
 N2071 Spain lab report on 105 X17  
 N2049 Cover page for 105 X17  
 N1891 WD 105 X17

**Recommendations:** CS to register **ISO 105 X17 Colorfastness to Rubbing – Reciprocating Line Tester** as a preliminary work item. Work has been done on this item. It took time to send equipment around the world to do the work. Additional testing and comparison with ISO 105 X-12 Colour fastness to rubbing will be done.

Discussion of this tester took place. It is used in China for a few companies but not in general. Most of the companies in China use ISO methods. It is used in Japan and said to be used for lightweight fabrics. The equipment operates on a different principle than the instrument used in ISO 105 X-12.

Spain feels that the test is reproducible and gives good results. It should be considered since it could be used in other countries even though it may not be needed by other countries. Fabrics with lower results should be found to be used in the next round robin testing.

**Recommendations:** Mr Suga will obtain additional fabrics and will send them to the USA, Mr. Myers, for testing and then the evaluation will be continued on a round robin basis. China also has offered fabrics. Fabrics will be sent by end of August, 2004. Results from new round robin (USA (Myers) Testfabrics, Cotton Inc., UK (Graham), Spain Valdeperas), Switzerland (Herter) by March 1, 2005.

Mr Suga will compile and summarize data by July 1, 2005.. The summarized data will be sent to working group members for review.

ISO 105 X18 Assessment for potential for phenolic yellowing

N 2007 WD ISO 105 X18

N2011 NWI for 105 X18

N2013 Vote on NWI for 105/X18

Ballot currently out and results are not yet known. Switzerland was surprised that a weight was used, but will wait for results of the ballot. South Africa asked if instrumental color measurement should be added to the method. A change in wording will be made to indicate that the color change is evaluated by using a grey scale for staining.

Two national standards bodies will be put into the standard so that an indication of contact about source of control paper will be made.

Multiple Colorfastness Procedures

N2059 Case Studies of Colorfastness to Simulate Wear

N2061 Multiple Colorfastness Test Procedures

N2063 Explanation of Multiple Colorfastness Procedures

China would like to propose this case study as a technical report. China would like to propose case 1 from the technical report as an international standard. Spain indicated that the group had agreed with a technical report but not to move it to an international standard. Switzerland indicated that this is more like a performance standard than a test method. The test methods are already in existence, so a new combined standard is not needed.

Germany indicated that the combination of already existing test methods could be proposed from many individual industries and that could get out of hand. UK (Graham) and USA (Washington) agreed with the statement. It is agreed that it should be a technical report.

Andrew Williams suggested that the information be made available on the public areas of Live Link rather than a technical report. Spain would like it to be a technical report. Discussion about wanting this as an official ISO document rather than just a document on Live Link.

**Recommendation:** Document N2099 Draft Technical Report: Case studies on the combination of colour fastness tests to simulated actual wear be circulated to WG13 members for comments. Comments should be submitted to China (Tong Jinshu) by January 30, 2005. A revised document should be presented for a vote on moving it forward as a Technical Report by May 1, 2005. Results of the vote will determine whether the document will be published as a technical report or on Live Link as a public document.

**Recommendation:** Ask Secretariat of TC38 SC1 to develop a process for review and acceptance of documents as well as length of publication that would be put on public areas of Live Link.